

lour, and in all other properties so far as my observation reaches, and therefore are deservedly reputed of the same Nature and Constitution, and by consequence the one is compounded as well as the other. But after the most Refrangible Rays begin to be totally reflected, and thereby separated out of the emergent Light MO , that Light changes its Colour from white to a dilute and faint yellow, a pretty good orange, a very full red successively and then totally vanishes. For after the most Refrangible Rays which paint the Paper at P with a Purple Colour, are by a total reflexion taken out of the Beam of light MO , the rest of the Colours which appear on the Paper at R and T being mixed in the light MO compound there a faint yellow, and after the blue and part of the green which appear on the Paper between P and R are taken away, the rest which appear between R and T (that is the Yellow, Orange, Red and a little Green) being mixed in the Beam MO compound there an Orange; and when all the Rays are by reflexion taken out of the Beam MO , except the least Refrangible, which at T appear of a full Red, their Colour is the same in that Beam MO as afterwards at T , the Refraction of the Prism HJK serving only to separate the differently Refrangible Rays, without making any alteration in their Colours, as shall be more fully proved hereafter. All which confirms as well the first Proposition as the second.

Scholium. If this Experiment and the former be conjoyned and made one, by applying a fourth Prism VXY to refract the reflected Beam MN towards tp , the conclusion will be clearer. For then the light Np which in the 4th Prism is more refracted, will become fuller and stronger when the Light OP , which in the third Prism HJK is more refracted, vanishes at P ; and afterwards when the less refracted

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